

KEY

PRACTICE Gateway #2- Simplifying Expressions
SHOW ALL WORK!

1) $5a^2 + 8a - 9a + b^2$
 $5a^2 - a + b^2$

2) $4(6x - 3y) + 5(2x + 7y)$
 $24x - 12y + 10x + 35y$
 $34x + 23y$

3) $6f - 8g - (3f + 7g - 5h)$
 $6f - 8g - 3f - 7g + 5h$
 $3f - 15g + 5h$

4) $8x(2x^2 - 9x + 4)$
 $16x^3 - 72x^2 + 32x$

5) $(5x + 2)(x - 7)$
 $5x^2 - 35x + 2x - 14$
 $5x^2 - 33x - 14$

	$5x$	$+2$
\times	$5x^2$	$2x$
-7	$-35x$	-14

$\frac{5(x-3)}{5 \cdot 4} + \frac{3x(4)}{5(4)}$

$\frac{5(x-3)}{20} + \frac{12x}{20}$

$\frac{5x-15}{20} + \frac{12x}{20} =$

$\frac{17x-15}{20}$